BUSHMASTER

M17S Bullpup



OPERATION
AND
SAFETY
INSTRUCTIONS

Bushmaster Firearms, Inc.
Quality Parts Co.
P.O. Box 1479
999 Roosevelt Trail
Windham, Maine 04062
Customer Service: 1 800 883 6229
Orders:1 800 998 SWAT • 1 207 892 3594

Part Number 30-962

WARNING!

THINK SAFE

DANGEROUS WEAPONS

Semi-automatic rifles are classified as FIREARMS or DANGEROUS WEAPONS and are sold by Bushmaster Firearms, Inc. with the specific understanding that we are not responsible in any manner whatsoever for their improper or negligent handling or resale under local laws and regulations. Bushmaster Firearms, Inc. shall not be responsible in any manner whatsoever for malfunctioning of the firearm or for physical injury or property damage resulting in whole or in part from:

1. Criminal or negligent discharge
2. Improper or careless handling
3. Unauthorized modifications
4. Defective, improperly loaded or reloaded ammunition
5. Corrosion
6. Neglect
7. Other influences beyond our immediate control.

This limitation applies regardless of whether liability is asserted on the basis of contract, negligence or strict liability (including any failure to warn.) Under no circumstances shall Bushmaster Firearms, Inc. be liable for incidental or consequential damages such as loss of use of property, commercial loss, and loss of earnings or profits.

WARNING!

THINK SAFE

EYE AND EAR PROTECTION

Always wear adequate shooting glasses, ear plugs or earmuff type protection when discharging firearms. Ensure that persons close to you are similarly protected.

Unprotected eyes may be injured by powder gas, carbon residue, lubricant, metallic particles or similar debris which may emanate occasionally from any firearm in normal use.

Without ear protection, repeated exposure to shooting noise may lead to cumulative permanent hearing loss.

LIMITED WARRANTY...

It is our intention under normal conditions to warrant any and all defects in parts, material or workmanship which affect the satisfactory operation of the rifle. Our warranty obligation is limited to the repair or replacement of any part(s) which is returned to us and is determined by us to be defective. We assume no liability for any incidental or consequential damage. Our warranty is made to the original owner and is not transferable. The following items are specifically excluded from coverage under this warranty.

(A) Normal wear of the protective finishes, and of all metal or plastic parts;

(B) Damage or malfunction resulting from accident, negligence, misuse or unauthorized repair or alteration;

(C) Damage or malfunction resulting from barrel obstructions;

(D) Damage or malfunction resulting from use of other than factory ammunition.



FIREARM SAFETY IS UP TO YOU!

1. ALWAYS KEEP MUZZLE POINTED IN SAFE DIRECTION
2. UNLOAD FIREARM WHEN NOT IN USE
3. DON'T RELY ON YOUR GUN'S “SAFETY”
4. BE SURE OF YOUR TARGET AND WHAT IS BEYOND IT
5. USE CORRECT AMMUNITION
6. IF RIFLE FAILS TO FIRE, HANDLE WITH CARE
7. WEAR EYE AND EAR PROTECTION
8. ENSURE BARREL IS CLEAR OF OBSTRUCTIONS
9. DON'T ALTER OR MODIFY YOUR GUN
10. LEARN ITS MECHANICAL AND HANDLING CHARACTERISTICS
11. SERVICE OFTEN

SAFETY WARNINGS !

THESE ARE ALL IMPORTANT SAFETY WARNINGS. PLEASE NOTE WARNING SYMBOLS FOUND THROUGHOUT THIS MANUAL.

These safety warnings are for your protection as well as the safety of others.
Disregarding information in this manual may result in serious injury or death.

Do not attempt to load or use any firearm until you have read and understand the information contained in this manual. Before handling this firearm, learn how it operates - and how to maintain it. This includes knowing its basic parts, how the safety features operate, how to safely open and close the action and how to safely load and unload ammunition.

Improper use and handling could cause severe injury or death to you or those around you.

Be certain this owner's manual is available for reference and is kept with this firearm if transferred to another party. If the manual is lost or misplaced, write or call for a replacement copy to:

Bushmaster Firearms, Inc.
999 Roosevelt Trail, Windham, Maine 04062
Customer Service Tel.: 1 800 883 6229

As the owner of this firearm, you must undertake the full time responsibility of safe firearms handling for your own safety and the safety of others.

- **Keep all firearms and ammunition out of reach of children.**
  - **Store firearms and ammunition separately.**
  - **Never store a loaded gun and always separate Upper and Lower Receiver and remove Bolt Carrier.**
- **Never leave a loaded firearm unattended.**
- **Never carry a loaded firearm in a vehicle.**

A firearm's safety button is a mechanical device which can never replace safe gun handling.

Always point the muzzle of your firearm in a safe direction, regardless of whether the firearm is loaded or unloaded.

It's your responsibility to obtain proper training to use and maintain your firearm. Certified and reputable safety courses and instructions are offered by the National Rifle Association and state and local organizations. You also have a responsibility to know and obey all local, state and federal laws governing the use, possession and transportation of firearms.

TREAT EVERY FIREARM AS IF IT WERE LOADED. **Give your firearm to someone with the action open and in the "safe" position, after you verify that the firearm is unloaded. Insist on the same procedure when receiving a firearm. Learn the location and operation of all safety features.**

SAFE GUN HANDLING DEPENDS ON YOU!

CONTENTS:

OPERATING INSTRUCTIONS

Read and understand this entire manual and its safety warnings BEFORE firing the rifle.

A. GENERAL DESCRIPTION

A1. Type of Weapon...

The Bushmaster M17S Bullpup is a gas operated Semi-Automatic rifle. It fires from the locked bolt position and the design makes it a short, handy rifle with high accuracy and reliability.

A2. Technical Data...

Caliber .... 5.56mm (.223")
Overall Length .... 30 inches
Weight (empty) .... 8.2 lbs.
Barrel .... chrome moly vanadium steel - 21.5" long with chrome plated chamber and bore
Number of Grooves .... 6 right hand (1 in 9") twist
Maximum Effective Range .... 600 yds.
Magazine Capacity .... accepts all standard M16/AR15 magazines

A3. Ammunition...

All M193 type, M855 type, tracer ammunition, blanks and dummy rounds produced in accordance with International or NATO standards may be used.

A4. Main Groups...

The Bushmaster M17S Bullpup generally consists of 4 main groups. Additionally, accessories may be considered as a group but they are not dealt with in this manual.

- Upper Receiver group
- Lower Receiver group
- Ignition Pocket group
- Bolt Carrier group
- Accessories

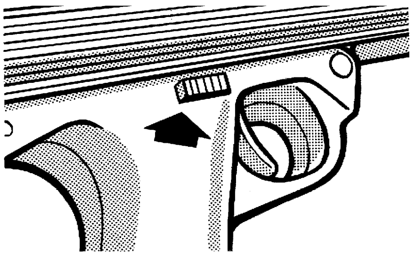
B. SAFETY MODE SELECTION

When the safety catch is pushed flush with the left side of the Lower Receiver, a **WHITE** line can be seen on the **right** side of the Lower Receiver.

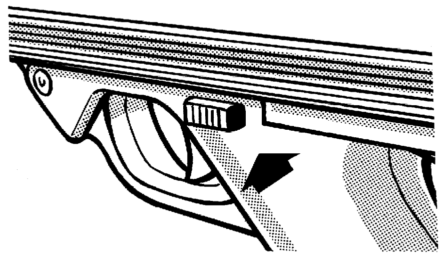
The rifle is now in **SAFE mode.**

When the safety catch is pushed flush with the right side of the Lower Receiver, a **RED** line can be seen on the **left** side of the Lower Receiver.

The rifle is now in **FIRE mode.**



WHITE = SAFE



RED = FIRE

BEFORE STRIPPING, the rifle must be unloaded and placed in SAFE mode.
The Safety is located on the left side of the Lower Receiver. Push safety in. A WHITE line will be visible on the RIGHT side of the lower receiver.

C. STRIPPING AND ASSEMBLING (for cleaning purposes)

C1. Stripping...

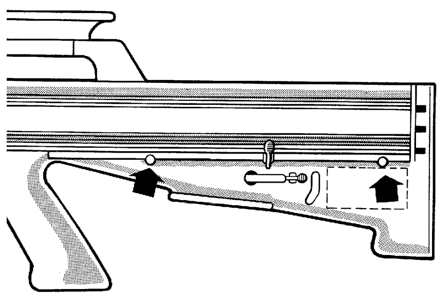
Step 1. Unload rifle. Remove the Magazine. Check to ensure no round remains in chamber.

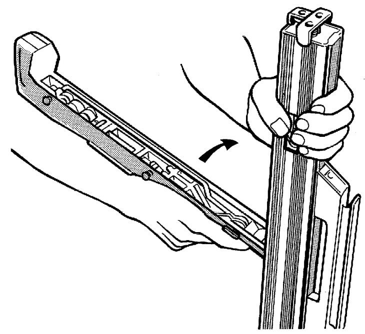
Step 2. Open the Rifle.

Place right hand on the pistol grip, fingers **away** from trigger. Cock the rifle with the left hand. Press in the heads of the two pins on the left hand side of the Lower Receiver.

The upper receiver group can now be swung open - exposing internal mechanisms.

Note: Do not over pressure the hinge pivot pin by forcing the upper receiver to its maximum swing position. Damage may occur to hinge or pin.

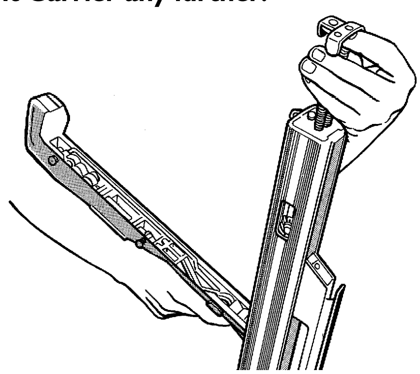




Step 3. Removing the Bolt Carrier Group.

Holding the pistol grip, use the thumb and two fingers of the left hand to grip the exposed action plate. Withdraw bolt carrier by pulling up and out.

Do not strip Bolt Carrier any further.



THINK SAFE

Removing the Ignition Pocket is a complex operation. It is recommended that it be carried out only by a qualified gunsmith.

C2. Assembling Bolt Carrier Group to Upper Receiver...

Step 1. With the right hand on the pistol grip and the Upper Receiver in the open position, hold the bolt carrier by the action plate with the thumb and the two fingers of the left hand.

Lower the bolt carrier into the Upper Receiver with the cam pin head located in the cam track of the Upper Receiver. Ensure breech bolt enters the slots of the barrel assembly. Align the three legs of the action plate inside the Upper Receiver.

Assembly is now complete.

Step 2. Closing the Rifle

Cock the hammer onto the sear with the left hand. Hold the end of the upper receiver with the left hand with the thumb pressing on the action plate to keep it level with the end of the receiver.

Swing the upper receiver down until the action plate is retained by the face of the lower receiver. Remove thumb and fully close the rifle.

Press in the two headed pins on the right side of the Lower Receiver until the heads are against the Lower Receiver. Rifle is now closed.

THINK SAFE

WARNING!
Do not insert full magazine until the next function is completed.

C3. Check Function...

ENSURE RIFLE IS POINTED IN A SAFE DIRECTION. Push the safety to **FIRE** position and pull the trigger. You must hear a click (hammer hitting the firing pin). Push the safety to **SAFE** position. Now try to pull the trigger - it must not move.

Magazine Check...

With the right hand on the pistol grip push in the magazine with the left hand. Push it upward until a click is heard. Check by pulling down on the magazine. It should not be able to be removed.

C4. Cleaning...

1. Barrel
Open rifle and remove bolt carrier. Using a standard type cleaning kit, pull the patch through the barrel using cleaning fluid. Repeat until barrel is clean. Use a dry patch to clean the dirty fluid from barrel.

Note: Clean the barrel from the chamber towards muzzle.

THINK SAFE

After cleaning, make sure barrel is free of obstructions and excessive lubricant.

2. Plastic Parts and Metal Parts

Plastic parts and the upper receiver are cleaned with a soft rag. If necessary, use water for cleaning. The bolt carrier and ignition pocket are cleaned with a soft brush.

To increase the life of the rifle and ensure proper functioning, some metal parts have to be oiled slightly after cleaning. Use only lubricants specially designed for firearms. Avoid abrasives. Oil outside metal surfaces very lightly. Oil bolt carrier as follows:

- 2 drops of oil per guide rod.
- 2 drops of oil into cam slot.

After any cleaning, disassembly or accessory installation, the rifle should be re-checked for proper functioning before firing.

Clean and inspect rifle periodically to ensure it remains in good condition. Clean after use, especially if it has been exposed to moisture.

Before loading, slide safety to SAFE position. During loading, never allow fingers or any objects to contact the trigger. Keep the muzzle pointed in a safe direction at all times. Inspect the chamber - the rear portion of barrel which contains the bullet - and bore of the barrel for any obstruction, excessive oil or grease. Failure to do so may result in gun damage and, or personal injury when rifle is fired. Do not load until ready for use. Unload firearm when shooting has been completed. The safety slide should always be in the SAFE position whether the firearm is loaded or not.

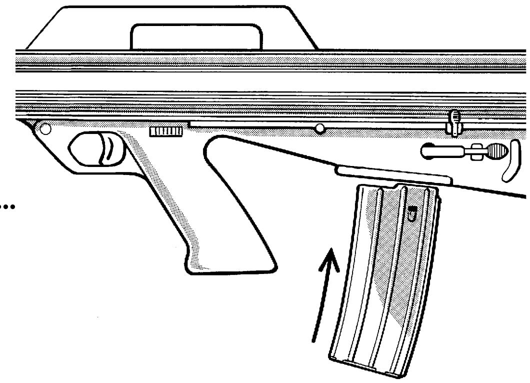
D. LOADING, FIRING AND UNLOADING...

D1. Loading...

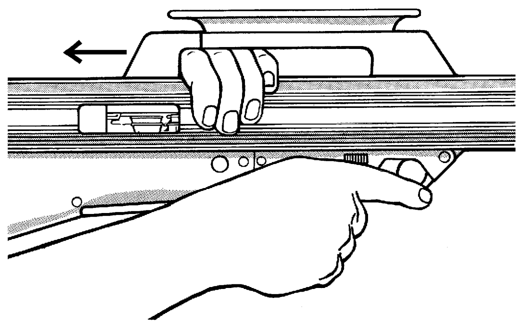
Insert a loaded magazine into magazine well. The magazine is home once an audible click is heard and when pulling downward, the magazine cannot be removed.

See illustration on next page.

Inserting Magazine...



Cocking...



Place left hand in the space between the carry handle and slide rearward as far as possible. When the furthermost point of this motion is reached, remove hand to allow the cocking handle to slide forward. The cocking handle will automatically return to its previous position to form part of the carry handle.

This cocks the action and makes the gun **READY TO FIRE.**

NOTE: This action is non-reciprocating. A once-only cocking action is all that is required. Cocking handle stays in place when firing.

D2. Firing...

To fire the rifle, slide the safety to **FIRE** position.

Aim at intended target and pull the trigger through its full travel towards you.

THINK SAFE

Aim rifle only at your intended target.
SAFE GUN HANDLING DEPENDS ON YOU!

THINK SAFE **Should the ammunition fail to fire, keep the rifle pointed in a safe direction. Slide safety to SAFE position. Do not refire shell. Slide cocking handle rearwards. The problem round will be ejected and a new round automatically selected.**

NOTE: Spent cartridges are ejected from the right of the rifle through the ejection port. Be sure that all observers are clear of the path of ejection as empty cartridges are thrown out with considerable force and are very hot.

THINK SAFE **If a noticeable difference in sound or recoil is experienced, STOP FIRING! Move safety slide to SAFE. Remove the magazine from the body and cock the action to remove any live rounds. Inspect the rifle for damage or obstruction in the barrel or bore. If you have recurring misfires, have the rifle inspected by a qualified gunsmith.**

D3. Loading after Having Fired the Last Round...

After having fired the last round of a magazine, the bolt carrier will be held in its rear position by the bolt catch. You can now see that you have an empty magazine and that the chamber is clear.

With the pistol grip in the right hand, select SAFE mode. Remove the magazine and replace with a fully loaded one. Press the bolt release button. The bolt carrier will automatically travel forward to the locked bolt position, loading a round into the chamber.

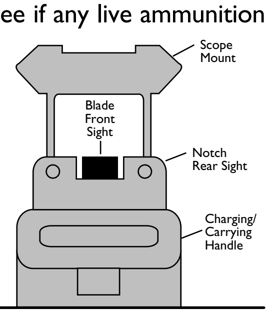
D4. Unloading...

Move safety slide to SAFE. Locate the magazine release button on the side of the rifle. Press button, at the same time removing magazine in a downward motion.

Keep fingers away from trigger when removing the magazine.

Turn rifle over and cock the action several times to see if any live ammunition is remaining in the chamber.

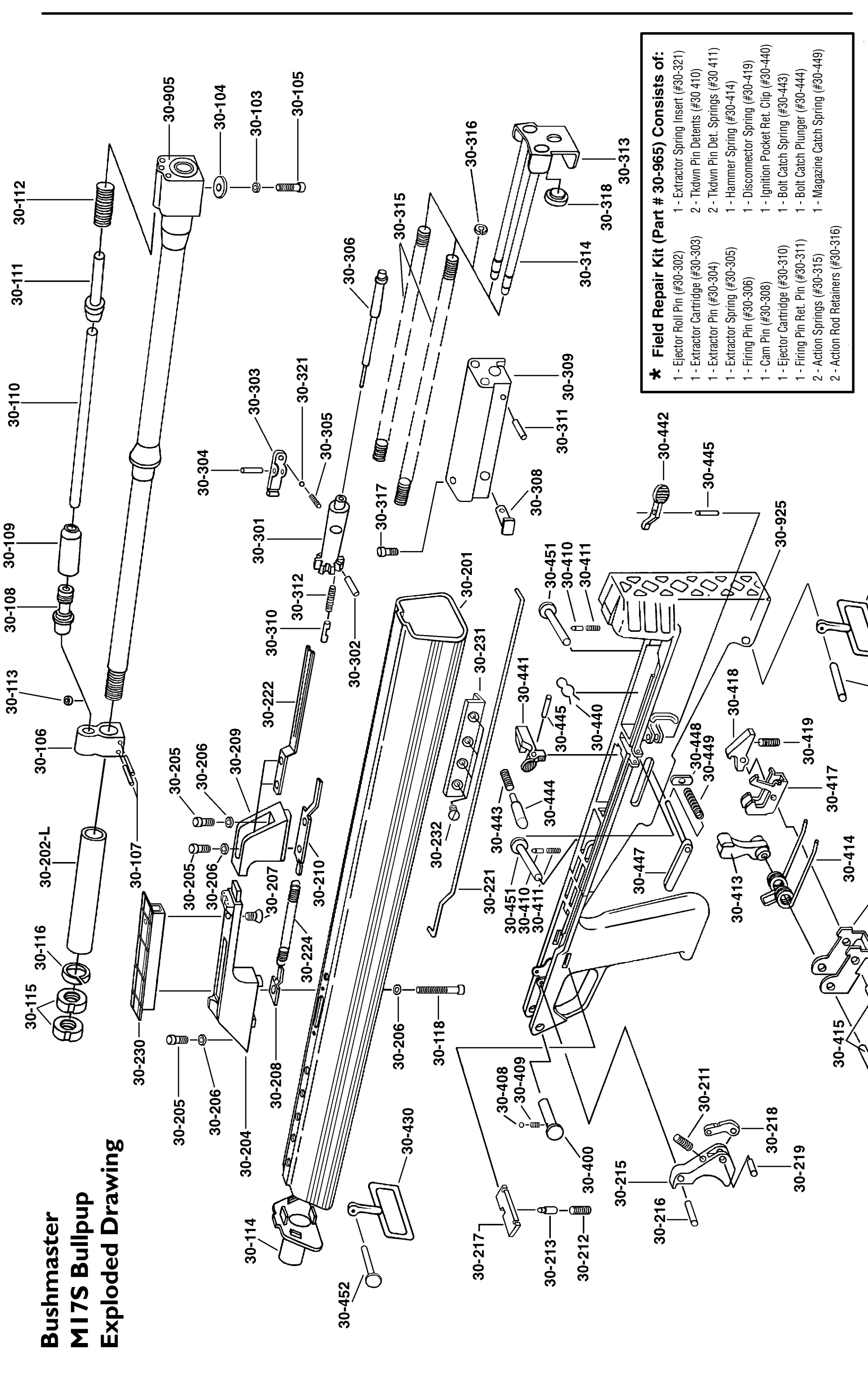
Note: The Bushmaster M17S is designed for use with either a telescopic sight or the rifle's open iron “field sights”. A simulated “shooter's view” of sighting with the field sights is shown at right. If you depend on telescopic sights, it may be advisable to carry a spare scope due to their inherent delicacy.



Bushmaster M 17 S Parts List:

30-103 - 1/4 High Collar Lock Washer	1.00
30-104 -Thrust Washer	1.95
30-105 - Barrel Extension Retaining Screw	2.50
30-106 - Gas Housing	18.95
30-107 (9349054btp) - Taper Pin (2 per gun)	0.95
30-108 - Piston	14.95
30-109 - Gas Cylinder	15.95
30-110 - Link Rod	9.95
30-111 - Operating Rod	9.95
30-112 - Operating Rod Spring	3.00
30-113 - Sleeve Piston	6.95
30-114 - Handguard Cap	20.00
30-115 - Lock Nut (2 per gun)	5.00
30-116 (8448577) - Lock Washer	2.00
30-118 - Sight Base Screw	2.50
30-201 - Upper Receiver - Stripped	119.95
30-202-L - Barrel Extension Tube	8.00
30-204 - Sight Base	29.95
30-205 - Sight Base/Cocking Handle Screw (3)	2.00
30-206 - Spring Washer (4 per gun)	2.00
30-207 - Sight Base Screw	2.00
30-208 - Spring Retainer	5.00
30-209 - Cocking Handle	15.95
30-210 - Cocking Plate	9.95
30-211 - Trigger Spring	2.00
30-212 (8448583) - Safety Detent Spring	2.00
30-213 - Safety Detent	2.00
30-215 - Trigger	19.95
30-216 - Trigger Roll Pin	1.00
30-217 - Safety	11.95
30-218 - Trigger Cam	5.95
30-219 - Trigger Cam Roll Pin	1.00
30-221 - Trigger Bar	9.00
30-222 - Cover Plate	7.95
30-224 - Cocking Spring	3.00
30-230 - Scope Mount	19.95
30-231 - Rail	19.95
30-232 - Rail Retaining Screw (4 per gun)	2.00
30-301 - Breech Bolt	64.95
30-302 (MS16562-98) - Ejector Roll Pin	0.50
30-303 (8448512 - Extractor Cartridge	6.95
30-304 (8448513) - Extractor Pin	0.80
30-305 (8448755sp) - Extractor Spring	0.50
30-306 - Firing Pin	10.95
30-307 - Firing Pin Spring (deleted 1998)	0.95
30-308 - Cam Pin	4.95
30-309 - Bolt Carrier	75.00
30-310 (8448515) - Ejector Cartridge	1.95
30-311 - Firing Pin Retaining Pin	0.50
30-312 (8448516) - Ejector Detent Spring	0.80
30-313 - Action Plate	12.95
30-314 - Action Rod (2 per gun)	14.95
30-315 - Action Spring (2 per gun)	5.00
30-316 - Retainer - Action Rod (2 per gun)	1.95
30-317 - Bolt Carrier Cap Screw	2.00
30-318 - Buffer	4.95
30-321 (8448754) - Extractor Spring Insert	0.50
30-400 - Hinge Pin	4.95
30-408 (MS19060-4808) - A-2 Ball Bearing	0.50
30-409 - Hinge Pin Spring	0.95
30-400a - Hinge Pin Assembly (400+408+409)	6.95
30-410 (8448585) - Tkdwn Pin Detent (2 per gun)	0.50
30-411 (8448586) - Tkdwn Pin Det. Spring (2)	0.50
30-413 - Hammer	19.95
30-414 - Hammer Spring	3.50
30-415 - Pivot Pin (2 per gun)	4.95
30-417 - Sear	14.95
30-418 - Disconnector	11.95
30-419 - Disconnector Spring	0.50
30-420 - Ignition Pocket	10.95
30-430 (8448571) - Sling Swivel (2 per gun)	2.50
30-434 - Rear Sling Swivel Roll Pin	0.95
30-440 - Ignition Pocket Retaining Clip	0.95
30-441 - Bolt Catch	6.00
30-442 - Ambi. Magazine Release	6.00
30-443 (8448633) - Bolt Catch Spring	0.50
30-444 (8448634) - Bolt Catch Plunger	0.50
30-445 (MS16562-119) - Spring Pin (2 per gun)	0.50
30-447 (8448638) - Magazine catch	2.95
30-448 - Magazine Button	1.95
30-449 (8448637) - Magazine Catch Spring	0.50
30-451 - Takedown Pin (2 per gun)	4.95
30-452 - Front Sling Swivel Rivet	0.95
30-962 - Operator's Manual	.50
Major Assemblies:	
30-905 - Barrel /Gas Housing Sub-Assembly	195.00
30-925 - Stripped Lwr. Rec./Pistol Grip Asmbly.	89.95
***30-965 - Field Repair Kit (described below)**	**29.95**

Note: In later model Bullpups, the Bolt Carrier was redesigned to eliminate the Firing Pin Spring (Part # 30-307).


Bushmaster
M17S Bullpup
Exploded Drawing
* Field Repair Kit (Part # 30-965) Consists of:
1 - Ejector Roll Pin (#30-302)
1 - Extractor Cartridge (#30-303)
1 - Extractor Pin (#30-304)
1 - Extractor Spring (#30-305)
1 - Firing Pin (#30-306)
1 - Cam Pin (#30-308)
1 - Ejector Cartridge (#30-310)
1 - Firing Pin Ret. Pin (#30-311)
2 - Action Springs (#30-315)
2 - Action Rod Retainers (#30-316)
1 - Extractor Spring Insert (#30-321)
2 - Tkdwn Pin Detents (#30 410)
2 - Tkdwn Pin Det. Springs (#30 411)
1 - Hammer Spring (#30-414)
1 - Disconnector Spring (#30-419)
1 - Ignition Pocket Ret. Clip (#30-440)
1 - Bolt Catch Spring (#30-443)
1 - Bolt Catch Plunger (#30-444)
1 - Magazine Catch Spring (#30-449)

SERVICE INSTRUCTIONS

Should your firearm require service that necessitates shipping to an authorized service center, please follow these instructions.

BE ABSOLUTELY SURE THAT THE FIREARM IS NOT LOADED!

THINK SAFE

Ship the firearm in a sturdy gun case or appropriate padded container. Do not send accessories, scopes or optics with the firearm. Wrap all pieces, if disassembled, in protective wrapping (foam or bubblepak). The Service Center will not be responsible for damage to firearms that may occur during shipping. Insure your rifle with the shipper.

Please include a letter stating the reason you are returning the firearm. Ship to our Central Factory Service Center:

BUSHMASTER FIREARMS, INC.
999 ROOSEVELT TRAIL
WINDHAM, MAINE 04062
Customer Service Telephone: 1 800 883 6229

PARTS ORDERS:

When ordering replacement parts, please provide the Model Number of Rifle (M17S for the Bullpup), the Serial Number of Rifle, the Part Name and Part Reference Number as indicated on the exploded view drawing (Pg. 15 of this manual) - or you may order by phone. Call 1-800-998 SWAT. Our phone lines are open seven days a week / 24 hours a day.

If ordering by mail, please include your complete return address (not a Post Office Box number) and phone number where you can be reached during normal business hours.

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